Remarks

Claims 1-8 and 32-43 are pending in this application. No amendments are made in this paper. No new matter has been introduced. Applicants respectfully submit that the pending claims are allowable for at least the following reasons.

A. The Rejection Under 35 U.S.C. § 103 Should Be Withdrawn

On pages 2-3 of the Office Action, the rejection of claims 1-8 and 32-43 under 35 U.S.C. § 103, as allegedly obvious over Jeffery *et al.*, *J. Chem. Soc.*, *Perkin Trans.*, 1: 2583-9 (1996) ("Jeffery") and Fang *et al.*, Tetrahedron: Asymmetry, 10: 4477-4480 (1999) ("Fang") is maintained. Applicants respectfully traverse this rejection.

Applicants again point out that Jeffery and Fang, alone or in combination, do not disclose or suggest all of the limitations of the pending claims, and do not provide motivation to arrive at the claimed invention. *See* Applicants' Response of September 28, 2005, which is incorporated herein in its entirety by reference. Further, Applicants pointed out that Jeffery teaches away from the claimed invention because it teaches that the claimed compounds do not likely contribute to the activity of sibutramine. *Id.* at page 3.

Despite this fact, it appears that, while the Examiner recognizes that Jeffery does not disclose the claimed stereoisomers, the Examiner rejects the pending claims based solely on the allegation that "stereoisomer is prima facie obvious over racemate, as a whole, absent evidence to the contrary." Office Action, page 3. The Examiner cites to three cases (i.e., In re Adamson, Brenner v. Ladd, and In re Williams) to support this proposition. Applicants respectfully point out that the Examiner's position is based on faulty legal principles, which are directly contrary to the well-settled legal principles concerning stereoisomers.

In this regard, Applicants submit herewith a copy of *In re Holy*, 2004 WL 77012 (B.P.A.I. 2004), which addressed issues almost identical to those raised in the present application. In *Holy*, claims at issue recited a genus of enantiomerically pure chemical compounds. The claims were rejected under 35 U.S.C. § 103 over, among others, a reference which disclosed a racemic mixture of a compound encompassed by the chemical structure recited by the claims. *See Holy*, page *3. The examiner in *Holy*, rejected the claims as allegedly obvious, citing *In re Adamson* and providing a reasoning substantially identical to that provided in the present

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application by the Examiner, *i.e.*, that a stereoisomer is *prima facie* obvious over prior disclosure of its racemic mixture. *See id*.

In reversing the examiner's rejection, the Board stated that:

[i]n order to make a prima facie case of obviousness based on the structural similarity, in this case similarity between the claimed optical isomer and its racemate taught by the prior art, not only must the structural similarity exist, but the prior art must also provide reason or motivation to make the claimed compound.

Id. at page *4 (citing In re Dillon, 919 F.2d 688, 692 (Fed. Cir. 1990); In re Mayne, 104 F.3d 1339, 1341 (Fed. Cir. 1997); and In re Payne, 606 F.2d 303, 313 (C.C.P.A. 1979)) (emphasis added).

The Board went on to hold that the rejection cannot be sustained because the references cited by the examiner in *Holy* did not provide any motivation, and the examiner did not "set forth any facts or findings to support the motivational statement, especially since all that is currently being claimed is a single isomer." *Id.* (citing *In re Lee*, 277 F.3d 1338, 1343-4 (Fed. Cir. 2002)) (emphasis added).

Further, in addressing the examiner's reliance on *Adamson* "for the proposition that an optically pure form of a compound is per se obvious over a disclosure of a racemic mixture of the compound," the Board held that such reliance is misplaced because "one cannot rely on case alone ... to provide the motivation to modify a prior art compound." *Id.* at page *6 (emphasis added). The Board further stated that the question is "whether there is something in the prior art as a whole to suggest the desirability... of making the combination," and held that the rejection should be reversed in view of the teaching away from making the modification suggested by the examiner.

1 Id. (citing *In re Rouffet*, 149 F.3d 1350, 1356 (Fed. Cir. 1998)).

As can be seen, the facts and holdings of *Holy* are directly applicable to the present application. As in *Holy*, the Examiner's rejection is based solely on the allegation that a stereoisomer is *prima facie* obvious over the prior disclosure of its

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The applicant in Holy provided references that taught that the racemic compound disclosed in the reference cited by the examiner is an inactive product, and pointed out that the prior art as a whole taught away from the claimed stereoisomer. See Holy, page *5. This is virtually identical to Applicants' submission that Jeffery teaches away from the claimed invention. See Applicants' Response of September 28, 2005, page 3. The Examiner does not provide any evidence or reasoning to rebut this submission.

racemate. As in *Holy*, the Examiner relies solely on cases to provide support for his allegation, without any consideration as to whether prior art as a whole would have provided any motivation. As in *Holy*, the Examiner does not provide any evidence or reasoning to rebut the teaching away pointed out by Applicants. Therefore, Applicants respectfully submit that the rejection of the claims 35 U.S.C § 103 cannot be sustained.

Conclusion

In sum, Applicants respectfully submit that: 1) Jeffery and Fang fail to establish a *prima facie* case of obviousness; 2) a *prima facie* case of obviousness also cannot be established in view of the teaching away by Jeffery's disclosure; and 3) the Examiner's reasoning in support of the rejection under 35 U.S.C. § 103 is legally faulty. For at least the foregoing reasons, Applicants respectfully submit that all of the pending claims are allowable, and request that the rejection of the claims be withdrawn.

No fee is believed due for this submission. Should any additional fees be due for this submission or to avoid abandonment of the application, please charge such fees to Jones Day Deposit Account No. 503013.

			Respectfully submitted,	
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*1 THIS OPINION WAS NOT WRITTEN FOR PUBLICATION

Board of Patent Appeals and Interferences

Patent and Trademark Office (P.T.O.)
EX PARTE ANTONIN HOLY, HANA DVORAKOVA, ERIK D. A. DE CLERCQ, JAN M. R.
BALZARINI

Appeal No. 2000-1024
Application No. 08/379,551

NO DATE REFERENCE AVAILABLE FOR THIS DOCUMENT

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Before WINTERS, GRIMES, and GREEN

Administrative Patent Judges

GREEN

Administrative Patent Judge

ON BRIEF

DECISION ON APPEAL

This is a decision on appeal under $\underline{35 \text{ U.S.C.}}$ $\underline{134}$ from the examiner's final rejection of claims 1, 4, 6, 8, 12-19, 45-48, 55, 63, 65, 70, 72, 73, 75, 85, 91, 93 and 94. [FN1] Claim 1 is representative of the subject matter on appeal, and reads as follows:

1. A compound of the formula:

CH₃ (IA) including salts of such compounds, wherein said compound of Formula IA is substantially free of its enantiomer and wherein B is (a) an unsubstituted purine moiety, (b) a substituted purine moiety substituted independently at the 2 and/or 6 and/or 8 position by amino, halogen, hydroxy, alkoxy, alkylamino, dialkylamino, aralkylamino, pyrrolidino, morpholino, piperidino, benzoylamino, azido, mercapto or alkylthio, or (c) the 8-aza analog thereof, and wherein

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B is other than a guanine or 2-amino-6-halopurine;

R is H; and aryl in aralkylamino is a 6-10C aromatic group.

Claims 4, 6, 8, 70, 72, 73, 75, 85, 91, 93 and 94 further limit the compound of claim 1. Claims 12-19 are drawn to a method of preparing the compound of claim 1. Claims 45 through 48, 55, 63 and 65 are drawn to specific compounds that fall within the compound of claim 1.

The examiner relies upon the following references:

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4,808,716 Feb. 28, 1989
Hol [sic] et al. (Holy (US))
                               5,130,427 Jul. 14, 1992
Alexander et al. (Alexander)
                               5,302,585 Apr. 12, 1994
Yu et al. (Yu (US))
Vemishetti et al. (Vemishetti) 5,476,938 Dec. 19, 1995
                               5,650,510 Jul. 22, 1997
Webb, II et al. (Webb (US))
European Patent Applications
                               0 253 412 Jul. 18, 1986
Holy et al. (Holy (EP))
Webb, II (Webb (EP))
                               0 269 847 Jun. 08, 1988
                               0 452 935 Oct. 23, 1991
Yu et al. (Yu (EP))
Starrett et al. (Starrett) 0 481 214 Apr. 22, 1992
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*2 Karrer, Organic Chemistry, 2nd English Edition, pp. 92-102 (1946)

The Merck Index, An Encyclopedia of Chemicals, Drugs, and Biologicals, 11th Edition, *Article No. 7868, p. 1247 (1989)

In addition, appellants rely upon the following references:

DeClercq et al. (DeClercq), "Antiviral activity of phosphonylmethoxyalkyl derivatives of purine and pyrimidines," Antiviral Research, Vol. 8, pp. 261-272 (1987)

Holy et al. (Holy (1989)), "Phosphonylmethyl Ethers of Nucleosides and Their Acyclic Analogues," ACS Symposium Series, Vol. 401, pp. 51-71 (1989)

Claims 1, 4, 6, 8, 45-48, 55, 63, 65, 70, 72, 73, 75, 85, 91, 93 and 94 stand rejected under 35 U.S.C. § 103(a) as being obvious over the combination of Holy (US), Webb (EP or US), Yu (US or EP), Starrett, Holy (EP) and Karrer. Claims 12-19 stand rejected under 35 U.S.C. § 103(a) as being obvious over the combination of Holy (US), Holy (EP), Webb (EP or US), Vemishetti, Alexander, Yu (US or EP) and the Merck Index. Claims 1, 4, 6, 8, 45-48, 55, 63, 65, 70, 72, 73, 75, 85, 91, 93 and 94 stand rejected under the judicially created doctrine of obviousness-type double patenting over the claims of Holy (US), $\underline{\text{U.S.}}$ Patent No. 4,808,716 (the 'F716 patent) as combined with Yu (EP or US), Holy (EP), Starrett and Karrer. Claims 1, 4, 6, 8, 45-48, 55, 63, 65, 72, 73, 75, 85, 91, 93 and 94 stand rejected under the judicially created doctrine of obviousness-type double patenting over the claims of U.S. Patent No. 5,650,510 (the '510 patent) as combined with Yu (EP or US), Holy (EP), Starrett and Karrer. Finally, claims 1, 4, 6, 70, 72, 85, 91, 93 and 94 stand provisionally rejected under the judicially created doctrine of obviousness-type double patenting over the claims of copending Application No. 07/925,610. After careful review of the record and consideration of the issues before us, we reverse all of the rejections of record except the provisional obviousness-type

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double-patenting rejection of claims 1, 4, 6, 70, 72, 85, 91, 93 and 94 over copending Application No. 07/925,610.

DISCUSSION

Claims 1, 4, 6, 8, 45-48, 55, 63, 65, 70, 72, 73, 75, 85, 91, 93 and 94 stand rejected under 35 U.S.C. § 103(a) as being obvious over the combination of Holy (US), Webb (EP or US), Yu (EP or US), Starrett, Holy (EP) and Karrer. In addition, the obviousness-type double patenting rejections over the '716 patent and the '510 patent as combined with Yu (EP or US), Holy (EP), Starrett and Karrer are included in the analysis of the rejection over the combination of Holy (US), Webb (EP or US), Yu (EP or US), Starrett, Holy (EP) and Karrer as the rejections state that the claims of the patents are "obvious variant[s] of that claimed herein as discussed in the above 103 rejection." Examiner's Answer, page 7. In addition, appellants rely on the patentability of the end product to overcome the rejection of claims 12-19 over the combination of Holy (US), Holy (EP), Webb (EP or US), Vemishetti (US), Alexander (US), Yu (US or EP) and the Merck Index. Thus, that rejection is also encompassed by the following analysis.

*3 Holy (US) is cited by the rejection for teaching a racemic mixture of 2-phosphonomethoxypropyladenine (PMPA). PMPA is included in the range of structures of claim 1. The rejection also references compound 2 in Table 1, as well as a discussion of the applications of the disclosed compounds, such as anti-viral activity, in column 4, lines 14-19 of the Holy (US) patent. The rejection reasons that:

While the corresponding optical isomer is not particularly disclosed, the claimed R-isomer is held as an obvious variant in view of its very close structural similarity and the fact that one skilled in the art would recognize the existence of such isomers and expect one of a pair to perform better over the other. There is case law regarding the standards of patentability of optical isomers over the corresponding racemic mixture which is on point. See for example, In re Adamson, 125 USPQ 233; Eli Lilly vs. Generix, 174 USPQ 65 regarding the standards of patentability of optical isomers over the corresponding racemic mixture. Note Karrer, cited in Adamson, and applied herein is evidence that it is very well known considerably prior to applicants' effective filing to consider the separation of biologically active racemates in order to determine if one is largely responsible for the desired activity. Examiner's Answer, page 5.

Webb (EP or US) is apparently cited for teaching derivatives of the compounds as taught by Holy (US). According to the rejection, "Webb does not embrace adenine compound of US Holy but does embrace substituted derivatives thereof having the same sidechain." Examiner's Answer, page 5. Yu (EP or US) is cited for its disclosure of resolution of one of the racemates disclosed by Webb "for elucidation of its antiviral properties," and teaches that the R isomer is "especially effective for treating HIV." Id. at 6.

Holy (EP) was cited for teaching compounds similar to the claimed compounds substituted with different groups, which also have anti-viral activity. Starrett was similarly cited for teaching "that for analogous phosphonate derivatives as claimed herein, substitution with alkyl- on the purine ring system at various ring positions is not a new modification." Id. at 6.

The examiner concludes:

Thus it would have been obvious to one skilled in the art at the time the instant invention was made to expect instant optical isomers in main claim 1 and claims dependent thereon as well as various 2- and/or 6-substituted purines in independent claims 45-48,

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55, 63 to be useful against one or more viruses in view of the close structural similarity and equivalency teachings outlined above.

Id.

*4 The panel would like to initially note that review of the issues on appeal was severely hampered by the lack of claim by claim analysis, i.e., the use of a shot-gun rejection. In rejecting claims 1, 4, 6, 8, 45-48, 55, 63, 65, 70, 72, 73, 75, 85, 91, 93 and 94 over the combination of Holy (US), Webb (EP or US), Yu, Starrett and Karrer, the examiner apparently cites Holy (EP) and Starrett for their teaching of certain derivatives that are only required in the dependent claims. Moreover, the rejection implies that at a minimum, claim 1 is would have been obvious over Holy alone.

Most tellingly, in the response to appellants' argument that Webb cannot be combined with Holy, the examiner responds that

Webb is not a secondary reference but rather a primary reference applied for showing additional aspects of appellants' invention as obvious, mainly for its teaching of 2,6 diamino phosphonomethoxypropyl purine, but Webb also teaches and claims bases such as 2-amino purine, 8-substituted guanines (guanine per se is excluded in the instant claims) which are within at least claim 1. Examiner's Answer, page 9.

If Webb was not to be combined with Holy (US), it should have been separately applied, or at least the examiner should have explicitly stated that Webb was being applied in the alternative. The way in which the rejection was laid out, however, makes it difficult to understand, much less rebut and review.

The burden is on the examiner to set forth a prima facie case of obviousness. See <u>In</u>

*re Fine, 837 F.2d 1071, 1074, 5 USPQ2d 1596, 1598-99 (Fed. Cir. 1988). In order to make a prima facie case of obviousness based on the structural similarity, in this case similarity between the claimed optical isomer and its racemate taught by the prior art, not only must the structural similarity exist, but the prior art must also provide reason or motivation to make the claimed compound. See <u>In re Dillon</u>, 919 F. 2d 688, 692,16 USPQ2d 1897, 1901 (Fed. Cir. 1990) (en banc), <u>In re Mayne</u>, 104 F. 3d 1339, 1341, 41 USPQ2d 1451, 1454 (Fed. Cir. 1997); <u>In re Payne</u>, 606 F.2d 303, 313, 203 USPQ 245, 256 (CCPA 1979). Moreover, the prior art has to enable the ordinary artisan to make the claimed compound. See <u>Payne</u>, 606 F.2d at 314. The rejection over Holy (US), Webb (EP or US), Yu (EP or US), Starrett, Holy (EP) and Karrer does not meet this criteria and thus fails to set forth a prima facie of obviousness.

In the rejection above, the examiner states with respect to the separation of the racemates of Holy (US) that "it is very well known considerably prior to applicants' effective filing to consider the separation of biologically active racemates in order to determine if one is largely responsible for the desired activity," see Examiner's Answer, page 5, but does not set forth any facts or findings to support the motivational statement, especially since all that is currently being claimed is a single isomer, i.e., the R isomer. See In re Lee, 277 F.3d 1338, 1343-44, 61 USPQ2d 1430, 1433-34 (Fed. Cir. 2002) (in reviewing an obviousness rejection, the court noted that "conclusory statements" as to teaching, suggestion or motivation to arrive at the claimed invention "do not adequately address the issue").

*5 With respect to the additional references cited by the examiner for teaching the various other substituents required by the claims, the only motivation that the examiner provides for making the combination is structural similarity. As noted above, however,

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structural similarity is not enough, but there must also be some teaching, suggestion, or motivation provided in the prior art to make the combination.

Moreover, appellants also argue that the art teaches away from isolating PMPA or PMPDAP from its isomer. Appellants cite Holy (1989) and DeClercq for teaching that PMPA is an inactive product. See Appeal Brief, pages 19-23. The examiner did not find the teaching away references to be persuasive because Holy filed and obtained a patent for PMPA and other compounds on the basis that the compounds are antiviral.

Obviousness is determined in view of the sum of all of the relevant teachings in the art, not isolated teachings in the art. See <u>In re Kuderna, 426 F.2d 385, 389, 165 USPQ 575, 578 (CCPA 1970)</u>; see also <u>In re Shuman, 361 F.2d 1008, 1012, 150 USPQ 54, 57 (CCPA 1966)</u>. In assessing the teachings of the prior art references, the examiner should also consider those disclosures that may teach away from the invention. See <u>In re Geisler, 116 F.3d 1465, 1469, 43 USPQ2d 1362, 1365 (Fed. Cir. 1997)</u>.

DeClercq states that PMPA is an "inactive product[]". DeClercq, page 264. The examiner dismisses that teaching by arguing that, in context, it appears that DeClercq is referring to the S-isomer. See Examiner's Answer, page 7. When a particular isomer is being referred to by the reference, however, DeClercq seems to indicate as such. Holy (1989) indicates that the replacement of the primary hydroxy group in HPMPA by a methyl group resulted in the loss of activity. See Holy (1989), pages 56-57. Thus, both DeClercq and Holy (1989) teach away from resolving a racemic mixture of PMPA into the currently claimed enantiomer.

In finding that the above prior art references do not teach away from separating a racemic mixture of PMPA into its optically pure isomers, the examiner relies on the Holy (US) patent, apparently bothered by the fact that Holy, who is also an inventor on the instant application, obtained a patent whose claims encompass PMPA. The examiner additionally asserts in support of the rejection that the patent was obtained because the compounds were shown to have antiviral activity.

While PMPA may be encompassed by the group of structures claimed in the Holy (US) patent, that is not dispositive of the issue of whether PMPA has antiviral activity. A claim may encompass inoperative embodiments and still meet the enablement requirement of 35 U.S.C. § 112, first paragraph. See Atlas Powder Co. v. E.I. Du Pont De Nemours & Co., 750 F.2d 1569, 1576, 224 USPQ 409, 413 (Fed. Cir. 1984), In re Angstadt, 537 F.2d 498, 504, 190 USPQ 214, 218 (CCPA 1976).

*6 In Table 1 of the Holy (US) patent, specifically referred to by the examiner in rejecting the claims at issue, see Examiner's Answer, page 4, certain chemical characteristics are given for compound 2, i.e., PMPA, but the table does not set forth any biological data. The disclosure of Holy relied upon by the examiner as stating that PMPA has biological activity, i.e., column 4, lines 14-19 of the Holy (US) patent, also does not support the examiner's position. That portion of the patent states:

Some compounds of the general formula I which are the subject of this invention, are important active components of antiviral drugs. An example of such compound is 9-phosphonylmethoxyethyladenine which exhibits a specific activity against DNA-viruses and Maloney sarcoma (PV 3018-85).

(Emphasis added). Thus, the patent does not assert that all of the compounds have antiviral activity, but that some of the compounds may have antiviral activity. When the disclosure of Holy (US) is read in conjunction with the teachings of DeClercq and Holy (1989), which specifically address PMPA, teaching that compounds such as PMPA do not have antiviral activity, the prior art, when read as a whole, teaches away from

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separating a racemic mixture of PMPA into its optically pure isomers.

In addition, the examiner also relies upon Adamson and Eli Lilly as apparently standing for the proposition that an optically pure form of a compound is per se obvious over a disclosure of a racemic mixture of the compound. See Examiner's Answer, page 8 ("The motivation to resolve the racemate of Holy is fully supported by the case law previously cited dealing with racemates vs. individual optical isomers."). One cannot rely on case law alone, however, to provide the motivation to modify a prior art compound. "[T] he question is whether there is something in the prior art as a whole to suggest the desirability, and thus the obviousness, of making the combination." In re Rouffet, 149 F.3d 1350, 1356, 47 USPQ2d 1453, 1456 (Fed. Cir. 1998) (citations omitted). In this case, the prior art as a whole, as discussed above, teaches away from making the modification as suggested by the examiner.

Claims 1, 4, 6, 70, 72, 85, 91, 93 and 94 stand provisionally rejected over the claims of co-pending Application No. 07/925,610. As appellants do not present any arguments as to why the rejection is improper, but instead note their intent to file a terminal disclaimer once the copending case is sent to issue, this rejection is affirmed.

CONCLUSION

The rejection of claims 1, 4, 6, 8, 45-48, 55, 63, 65, 70, 72, 73, 75, 85, 91, 93 and 94 over the combination of Holy (US), Webb (EP or US), Yu (EP or US), Starrett, Holy (EP) and Karrer is reversed. For the same reasons, the obviousness-type double patenting rejections over the '716 patent and the '510 patent as combined with Yu (EP or US), Holy (EP), Starrett and Karrer, and the rejection of claims 12-19 over the combination of Holy (EP), Webb (EP or US), Vemishetti, Alexander, Yu (US or EP) and the Merck Index, are also reversed. Finally, the provisional rejection of claims 1, 4, 6, 70, 72, 85, 91, 93 and 94 over the claims of co-pending application No. 07/925,610 is affirmed.

*7 No time period for taking any subsequent action in connection with this appeal may be extended under 37 CFR § 1.136(a).

AFFIRMED-IN-PART; REVERSED-IN-PART

BOARD OF PATENT APPEALS AND INTERFERENCES

SHERMAN D. WINTERS

Administrative Patent Judge

ERIC GRIMES

Administrative Patent Judge

LORA M. GREEN

Administrative Patent Judge

FN1. According to the Examiner's Answer, claims 49-54, 56-62, 64 and 79 are free of the prior art, with Claim 79 being objected to, and thus these claims are not subject to the instant appeal. See Examiner's Answer, page 2.

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